

## **High Speed Multi-Channel Input/Output Card for MIMO**

**Northwich, January 2006,** Kane Computing are now selling the new Lyrtech VHS-ADC-V4, the latest in their VHS range of high speed Virtex-4 based multi-channel input/output cards. This higher speed member of its multi-channel cPCI data acquisition line of products is specifically targeted at advanced multiple input/multiple output (MIMO) technologies.

The VHS-ADC-V4 is claimed to be the only solution world-wide that can acquire 16 RF channels and process them to IF and baseband levels.

The VHS-ADC-V4 can be used with other Lyrtech DSP/FPGA boards such as the SignalMaster Quad.

Equipped with 8 to 16 channels capable of a maximum sampling rate of 105 MHz, a customizable range of powerful Xilinx Virtex-4 FPGA for high-speed processing, and model-based design capabilities, the VHS-ADC-V4 allows its users to create state-of-the art embedded solutions for applications such as smart antenna, beam forming, wireless router, software-defined radio, geolocation, space-time processing, as well as phased-array radar, and other multi-channel, high-speed systems.

“Combined with its board software package, the VHS-ADC-V4 offers ease of interfacing and advanced design flow capabilities. Fully integrated with The MathWorks environment MATLAB® and the Xilinx System Generator™ for DSP, the solution allows users to develop a functional prototype of their applications quickly and to optimize code and final hardware through efficient paths,” states Louis Bélanger, Lyrtech Executive Vice President and Product Development Manager.

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“The push towards higher bandwidths for mobile users, the development of higher-speed wireless LAN (802.11n), and the implementation of the next generation of wireless systems are driving the use of smart antenna/MIMO systems. We developed the VHS-ADC-V4 in response to the need for an advanced platform that is specifically adapted to facilitate smart antenna development. There is a significant market for this product on a stand-alone basis, or combined with our SignalMaster Quad cPCI platforms for a complete high-performance DSP solution,” added Migüel Caron, Lyrtech President and Chief Executive Officer.

### **About Kane Computing Ltd**

KCL has been providing Image Processing, DSP and high performance computing products for use in industry, education and research since 1987. KCL started life as Sension Advanced Computing, designing, manufacturing and supplying parallel processing products based around the Inmos transputer. In 1995 it became part of Kane International Ltd and subsequently changed its name to Kane Computing. In October 2001 Kane Computing became an independent Company. KCL is a member of TI (Texas Instruments) third party network and is now regarded as the primary source of fully supported development tools for Texas Instruments series of DSPs in the United Kingdom. KCL provides a whole range of products based around Texas Instrument’s TMS320 range of DSP’s. This includes starter kits, development systems, application boards and emulators. KCL has a policy of continual improvement and operates its business in accordance with the requirements of ISO9001:2000.

### **About Lyrtech**

In today’s world, digital signal processing technology is vital to network and wireless communications, audio and video processing, as well as defence and aerospace electronic systems. Lyrtech has more than 20 years of experience in the delivery of advanced digital signal processing solutions to companies worldwide. Serving clients across the Americas, Asia, and Europe, Lyrtech offers a full range of design, prototypes, and the manufacturing and delivery of DSP value-added products and services. These include DSP/FPGA development platforms, complete turnkey solutions, and custom electronic manufacturing services. The company works in partnership with industry leaders such as StarCore, Texas Instruments, The MathWorks, and Xilinx. Lyrtech delivers unsurpassed quality and support to its large OEM customer base, which includes many prestigious names such as BAE Systems, European Aerospace Defence and Space Company, Fujitsu, Harris, Honda, ITT, Neural Audio, Nokia, NTT DoCoMo, Samsung, and Sony.

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